Performance Data Sheet

AWG5524EXG

General Information

Model	AWG5524EXG	**Refrigerant**	R-22
Test Condition	ARI	**Performance Test Voltage**	460V 3~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	3PH

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
-15	Btu/h	5690	4750					
	Watts	983	954					
	Amps	1.78	1.74					
	Lb/h	72.9	63.9					
-10	Btu/h	7390	6410	5380				
	Watts	1090	1070	1060				
	Amps	1.90	1.87	1.85				
	Lb/h	94.3	85.5	75.3				
-5	Btu/h	9150	8120	7050	5940			
	Watts	1180	1180	1180	1180			
	Amps	2.00	1.99	1.99	1.98			
	Lb/h	116	107	97.4	86.1			
0	Btu/h	11000	9900	8770	7610	6420		
	Watts	1260	1280	1300	1310	1320		
	Amps	2.09	2.10	2.12	2.13	2.13		
	Lb/h	139	130	120	109	96.5		
5	Btu/h	12900	11800	10600	9350	8100		
	Watts	1340	1370	1410	1440	1460		
	Amps	2.16	2.20	2.23	2.26	2.28		
	Lb/h	163	154	144	133	120		
10	Btu/h	15000	13800	12500	11200	9850	8510	7170
	Watts	1400	1450	1510	1550	1590	1620	1620
	Amps	2.23	2.28	2.34	2.39	2.43	2.46	2.46
	Lb/h	188	178	168	157	145	131	117
15	Btu/h	17200	15900	14500	13100	11700	10300	8850
	Watts	1460	1530	1600	1660	1710	1760	1780
	Amps	2.29	2.36	2.43	2.51	2.57	2.62	2.64
	Lb/h	214	205	194	183	171	157	143
20	Btu/h	19600	18100	16600	15100	13600	12100	10600
	Watts	1510	1590	1680	1760	1830	1890	1930
	Amps	2.34	2.43	2.52	2.61	2.70	2.77	2.82
	Lb/h	242	232	222	210	198	184	170

25	Btu/h	22200	20600	19000	17300	15700	14100	12500
	Watts	1550	1650	1750	1850	1930	2010	2070
	Amps	2.38	2.49	2.60	2.71	2.81	2.91	2.98
	Lb/h	272	262	251	239	226	213	198
30	Btu/h	24900	23200	21500	19700	18000	16200	14500
	Watts	1590	1700	1820	1930	2030	2130	2210
	Amps	2.42	2.54	2.67	2.80	2.93	3.04	3.14
	Lb/h	304	293	282	270	257	243	228
35	Btu/h	27900	26000	24100	22300	20400	18500	16600
	Watts	1620	1740	1870	2000	2120	2230	2330
	Amps	2.45	2.59	2.73	2.88	3.03	3.17	3.29
	Lb/h	338	327	315	303	289	275	260
40	Btu/h	31200	29100	27100	25000	23000	20900	18900
	Watts	1640	1780	1920	2070	2200	2330	2440
	Amps	2.47	2.63	2.79	2.96	3.13	3.29	3.43
	Lb/h	375	363	351	338	324	310	295
45	Btu/h	34700	32400	30200	28000	25800	23600	21400
	Watts	1660	1810	1970	2130	2280	2420	2550
	Amps	2.49	2.66	2.85	3.03	3.22	3.40	3.57
	Lb/h	415	403	390	376	362	347	331
50	Btu/h	38500	36000	33600	31200	28800	26500	24200
	Watts	1670	1840	2010	2180	2350	2500	2650
	Amps	2.50	2.69	2.90	3.10	3.31	3.51	3.70
	Lb/h	458	445	431	417	402	386	370
55	Btu/h	42600	39900	37300	34700	32100	29600	27100
	Watts	1670	1850	2040	2220	2410	2580	2740
	Amps	2.51	2.72	2.94	3.17	3.39	3.62	3.83
	Lb/h	504	490	475	460	445	429	412

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.796288E+04	1.465969E+03	2.693576E+00	1.720976E+02
C2	5.267545E+02	-6.149092E+00	-4.416901E-03	5.246885E+00
C3	-6.267262E+01	-1.126886E+01	-2.299348E-02	-4.710550E-02
C4	4.185345E+00	-1.316395E-01	-1.973429E-04	3.257774E-02
C5	-2.269788E+00	2.300779E-01	1.735606E-04	-1.356483E-02
C6	-3.578407E-01	1.596548E-01	2.733686E-04	-4.058455E-03
C7	2.701652E-02	4.809128E-04	1.135271E-06	3.084975E-04
C8	-2.641499E-02	-5.768510E-04	-3.551857E-07	-1.612851E-04
C9	5.233609E-03	5.520883E-04	1.140680E-06	7.304413E-05
C10	6.566958E-04	-6.343609E-04	-1.009894E-06	-6.638636E-06

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature